

## PATENT ABSTRACTS OF JAPAN

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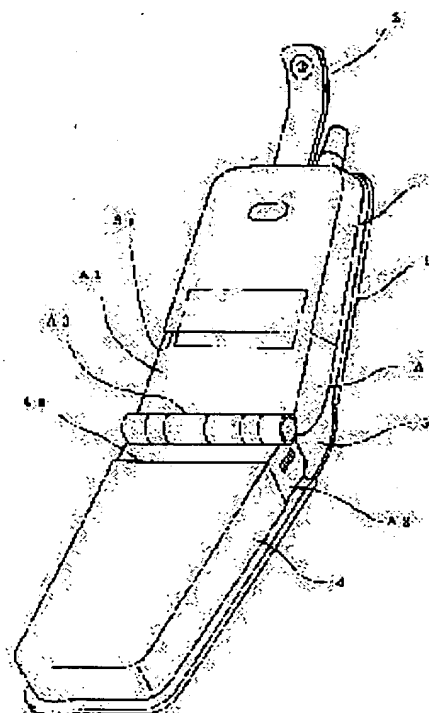
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### (54) HOUSING CASE FOR MOBILE TELEPHONE SET

#### (57)Abstract:

PROBLEM TO BE SOLVED: To reduce the unrequired margin part in manufacturing a housing case by providing an automatic opening function by using a flexible member and giving tension to the housing case.

SOLUTION: A case ground fabric 1 for covering the outer side face of a mobile telephone set A is formed and an attaching part 2 for attaching the mobile telephone set A in a closed state is provided. Then, a speaker side housing part 3 and a microphone side housing part 4 are respectively formed in a bag shape by the means of making respective opening parts 3a and 4a face on an inner side and sticking or welding three sides or the like. Further, the case ground fabric hinge part 5 of the case ground fabric 1 for covering the outer side of the hinge means A3 of the mobile telephone set A is formed from flexible member of synthetic rubber or the like. Then, by the flexible member of the case ground fabric hinge part 5, the tension for pulling a speaker interior side part A1 and a microphone interior side part A2 to an outer side while the mobile telephone set A is in the closed state is supplied. Thus, just by detaching the attaching part 2, it is automatically opened.



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CLAIMS

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[Claim(s)]

[Claim 1] It is the case which contains migration telephones, such as a cellular-phone machine of the type which a microphone interior flank infixes a hinge means with a loudspeaker interior flank, and is opened and closed. the lateral surface of said migration telephone -- a wrap case base fabric -- forming -- the both sides inside this case base fabric -- about a loudspeaker interior flank -- about a microphone interior flank -- at least -- a medial surface -- a wrap loudspeaker side stowage and a microphone side stowage -- saccate -- and, while confronting each opening and forming it Prepare the engagement section with which said migration telephone is made to engage by the closed state, respectively, and the case base fabric hinge region of a wrap case base fabric is formed for the outside of said hinge means by the elasticity member. The receipt case of the migration telephone by which migration telephone is giving-by closed state-loudspeaker interior flank and tension to which at least microphone interior flank is pulled outside characterized to this case base fabric hinge region.

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DETAILED DESCRIPTION

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[Detailed Description of the Invention]

[0001]

[Industrial Application] About the portable receipt case of migration telephones, such as a cellular-phone machine, this invention infixes a hinge means in a detail, and relates to a loudspeaker interior flank and the receipt case of the migration telephone of a type where a microphone interior flank is opened and closed.

[0002]

[Description of the Prior Art] The case contained in order to carry conventionally migration telephones, such as a cellular-phone machine of the type which a microphone interior flank infixes a hinge means with this kind of loudspeaker interior flank, and is opened and closed, leather, It is formed with artificial leather, a synthetic fiber, synthetic resin, etc., the engagement sections, such as a snap attached in the receipt case, are removed at the time of use, and the microphone interior flank is used as an open condition of the shape of a character of \*\* with the loudspeaker interior flank with the hinge means.

[0003]

[Problem(s) to be Solved by the Invention] However, the microphone interior flank was shut [ flank / loudspeaker interior ] with \*\*\*\* by the closed state at the time of \*\* et al. and use, and in order to consider as the open condition of the shape of a character of \*\* in which conversation is possible, it had to open using both hands.

[0004] Moreover, there was no elasticity in the conventional receipt case, the clearance was made in the closed state or open condition which contained migration telephone between migration telephone and a receipt case, and a feeling of BUKABUKA was what cannot be denied.

[0005]

[Means for Solving the Problem] This invention forms a wrap case base fabric for the lateral surface of migration telephone in view of the aforementioned reason. the both sides inside a case base fabric -- about a loudspeaker interior flank -- the medial surface of an about [ a microphone interior flank ] -- a wrap loudspeaker side stowage and a microphone side stowage -- saccate -- and, while confronting opening and forming it The engagement section with which migration telephone is made to engage by the closed state is prepared, and the outside of a hinge means is canceled by having formed the case base fabric hinge region of a wrap case base fabric by the elasticity member.

[0006] Therefore, the purpose of this invention offers the receipt case of migration telephone where reduction of the unnecessary room sections at the time of manufacture of a receipt case was aimed at while being equipped with the automatic opening function like a microphone interior flank with the loudspeaker interior flank of migration telephones, such as a cellular-phone machine, by having used the elasticity member for the receipt case and having given the tension.

[0007]

[Function] The receipt case of the migration telephone of this invention is contained without the outside by the side of microphone interior being pulled by the tension of the elasticity member of the case base fabric hinge region of a receipt case with the loudspeaker interior flank of migration telephone, opening

automatically according to it, and a clearance occurring between the surrounding receipt cases of a hinge means also in the open condition of migration telephone further, if the engagement section is removed.  
[0008]

[Example] A drawing explains the example of the receipt case of the migration telephone concerning this invention.

[0009] Drawing 1 is the perspective view of the busy condition of the example of the receipt case of the migration telephone of this invention, drawing 2 is the top view of the example of the receipt case of the migration telephone of this invention, and drawing 3 is the top view of degree example of the receipt case of the migration telephone of this invention.

[0010] This invention is a thing about the portable receipt case of the migration telephones A, such as a cellular-phone machine. In a detail For A2, at least loudspeaker interior flanks are [ at least A1 and a microphone interior flank ] the things about the case which contains the migration telephones A, such as a cellular-phone machine of a type which infixes hinge means A3, and is opened and closed. The wrap case base fabric 1 is formed for the lateral surface of said migration telephone A. the both sides inside this case base fabric 1 -- about a loudspeaker interior flank -- about A1 and a microphone interior flank - - A2 -- at least -- a medial surface -- the wrap loudspeaker side stowage 3 and the microphone side stowage 4 -- saccate -- and, while confronting each opening 3a.4a and forming Form the engagement section 2 with which said migration telephone A is made to engage by the closed state, and the case base fabric hinge region 5 of the wrap case base fabric 1 is formed for the outside of said hinge means A3 by the elasticity member. The tension to which the migration telephone A pulls [ A1 and a microphone interior flank ] A2 outside by the closed state at least in a loudspeaker interior flank is given to this case base fabric hinge region 5.

[0011] Namely, although the receipt case of the migration telephone A of this invention is related with the receipt case which contains the migration telephones A, such as a cellular-phone machine, so that it may illustrate to drawing 1 Especially, hinge means A3 is infixed in the migration telephone A, according to a closed state, at least a loudspeaker interior flank is bent by the compact at 2 chip boxes, and at least A1 and a microphone interior flank use A2 for the open condition of the shape of a character of \*\*\*\*\*, and the migration telephone A of a type which changes for it at a proper include angle during use.

[0012] The loudspeaker to which while is bent and, as for the migration telephones A, such as a cellular-phone machine with which this kind of hinge means A3 was infixed, at least a loudspeaker interior flank utters voice to the medial surface of A1 as everyone knows, The display display which displays various kinds of information is prepared. To the medial surface of A2, at least the microphone interior flank of another side A microphone, The operating button which consists of the push button of a large number which carry out various kinds of actuation is prepared, and when carrying, it has contained in the receipt case by the closed state which bent the migration telephone A.

[0013] Moreover, at least a loudspeaker interior flank allots the operating button which carries out various kinds of actuation to the medial surface of A1, and there are some migration telephones A of the type with which hinge means A3 was infixed used as the plate with very as thin A2 as a microphone interior flank.

[0014] The receipt case of the migration telephone A of this invention is adapted for the migration telephone A with which hinge means A3, such as this, was infixed, and along with the periphery of the lateral surface of the migration telephone A, a little, at least A1 and a microphone interior flank bulge each lateral surface of A2 and hinge means A3, and, as for the wrap case base fabric 1, form width for it, the lateral surface, i.e., the loudspeaker interior flank, of the migration telephone A.

[0015] And it is what has formed the engagement section 2 with which the migration telephone A is made to engage by the closed state. This engagement section 2 fixes one snap 2b the tip side of engagement member 2a of the shape of a tongue installed from the case base fabric 1. Although it has prepared in the location where snap 2c of another side is fixed through the case base fabric hinge region 5 mentioned later, and the migration telephone A can fuse snap 2b.2c by the closed state At least as for the case base fabric 1 or a loudspeaker interior flank, at least A1 or a microphone interior flank does not

care about with A2 the location in which a surface fastener, a magnet, etc. are sufficient and the engagement section 2 is formed besides snap 2b.2c as the engagement section.

[0016] Next, at least the loudspeaker interior flanks of the migration telephone A are [ at least A1 and a microphone interior flank ] the things of A2 which form the wrap loudspeaker side stowage 3 and the microphone side stowage 4 for a medial surface at least. Although it does not matter even if it covers in the loudspeaker side stowage 3 and the microphone side stowage 4 even if the side face of the migration telephone A makes the case base fabric 1 install and it covers it The loudspeaker side stowage 3 and the microphone side stowage 4 confront each opening 3a.4a inside, and form Mikata in saccate with means, such as attachment or joining, respectively.

[0017] Furthermore, the case base fabric hinge region 5 of the wrap case base fabric 1 is formed for the outside of hinge means A3 of the migration telephone A by elasticity members, such as synthetic rubber, and at least the loudspeaker interior flank has given [ the migration telephone A ] the tension to which at least A1 and a microphone interior flank pull A2 outside by the closed state by the elasticity member of this base fabric hinge region 5.

[0018] and the display display prepared in the migration telephone A, an operating button, a microphone, a loudspeaker, and an antenna -- it hangs, and even if it forms the case base fabric 1, the loudspeaker side stowage 3, and the microphone side stowage 4 by the transparence member, carry out opening and it is made to expose or penetrate, and the peach and only expose, it is arbitrary [ parts, such as a lower string, ].

[0019] In addition, in degree example illustrated to drawing 3 , at least a loudspeaker interior flank allots the operating button which carries out various kinds of actuation to A1. Are suitable for the migration telephone A with which at least the microphone interior flank of a very thin plate is equipped with A2 through the hinge means A1. The case base fabric 1 is what installs at least a loudspeaker interior flank to the side face of A1, and it makes the shape of a cross-section KO character. The loudspeaker side stowage 3 carries out opening of the opening 3a to a hinge means A3 side to the surface started to Mikata of the case base fabric 1. Attachment, joining, Or it forms in saccate with means, such as attaching by sewing, and the microphone side stowage 4 is formed in saccate [ which confronted opening 4a like the above-mentioned example ].

[0020] And the case base fabric hinge region 5 of the wrap case base fabric 1 is formed for the outside of hinge means A3 of the migration telephone A between the loudspeaker side stowage 3 and the microphone side stowage 4 by the elasticity member, and at least the loudspeaker interior flank has given the tension to which at least A1 and a microphone interior flank pull A2 outside by telescopic motion of the case base fabric hinge region 5.

[0021]

[Effect of the Invention] By having constituted this invention as mentioned above, can also make easy insertion and detachment of migration telephones, such as a cellular-phone machine to a receipt case, and the engagement section is only removed at the time of transmission and reception. It is what a microphone interior flank is pulled outside through a hinge means with a loudspeaker interior flank, and carries out automatic opening according to the tension of the elasticity member of a case base fabric hinge region. since it changes single hand that it is operational enough and forms by the elasticity member of a case base fabric hinge region -- between a receipt case and migration telephones -- an open condition, even if it is Also in a closed state, a clearance changes that there is nothing, there is no feeling of BUKABUKA, surplus \*\*\*\* of a case base fabric is lost, it is economical, and practicality is also high invention.

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DESCRIPTION OF DRAWINGS

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[Brief Description of the Drawings]

[Drawing 1] Drawing 1 is the perspective view of the busy condition of the example of the receipt case of the migration telephone of this invention.

[Drawing 2] Drawing 2 is the top view of the example of the receipt case of the migration telephone of this invention.

[Drawing 3] Drawing 3 is the top view of degree example of the receipt case of the migration telephone of this invention.

[Description of Notations]

A Migration telephone

A1 About a loudspeaker interior flank

A2 About a microphone interior flank

A3 Hinge means

1 Case Base Fabric

2 Engagement Section

3 Loudspeaker Side Stowage

3a Opening

4 Microphone Side Stowage

4a Opening

5 Case Base Fabric Hinge Region

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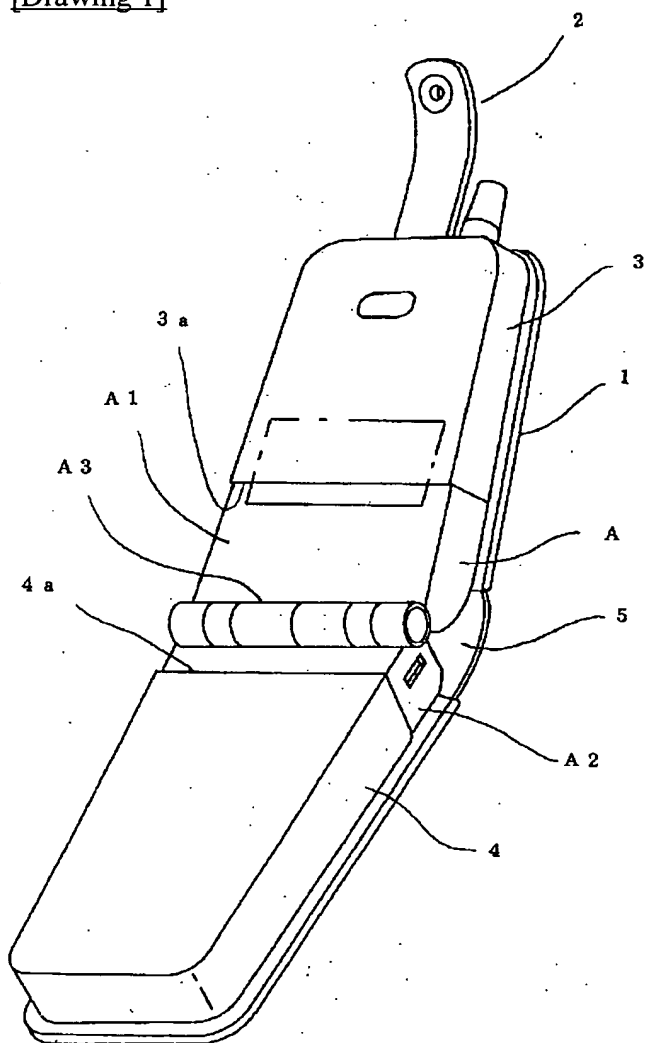
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DRAWINGS

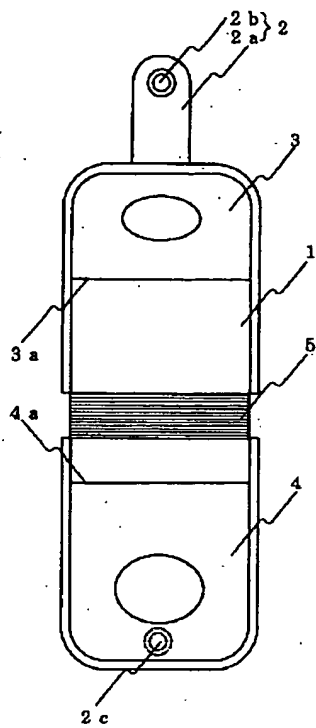
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[Drawing 1]

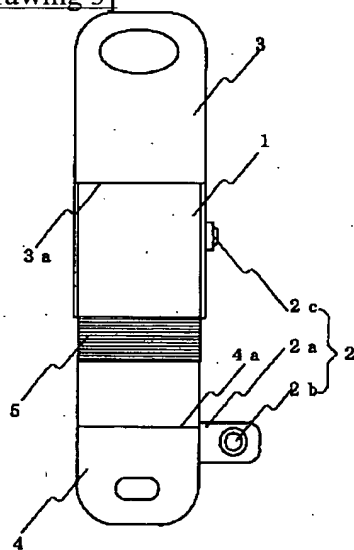


[Drawing 2]





[Drawing 3]



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